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CIA-RDP86-00513R001961710001-5"

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Successful surgery of congenital esophageal atresia with double  
esophago-tracheal abacess. Orv.hetil. 102 no.36:1703-1705 3 s '61.

1. Budapesti Istvan korhaz, Gyermeksebeszeti Osztaly.

(TRACHEA dis) (ESOPHAGUS abnorm)

WITTEK, Z.

The Production of Spheroid Cast Iron in a Sealed Drum Ladle, p. 110.

PRZEGIAD ODLEWNICTWA. (Stowarzyszenie Techniczne Odlewnikow Polskich)  
Krakow, Poland  
Vol. 9, no. 4, April 1959.

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November 1959.  
Uncl.

With P, Z

Modern Technology of Cast Iron Melting with Special  
Reference to Melting in Cupola Furnaces with Water Cooled  
Lining. M. Cywarski, C. Podrzwek and Z. Girek. (Przeglad  
Gospodarczy, USSR, 6, (7-9), 1962-2021 (9), 237-240). (In  
Polish). A general review of methods leading to an improve-  
ment in the efficiency in cupola melting is given. The following  
problems are discussed: the use of two or more rows of  
layers; oxygen enrichment of blast, basic lining and water  
cooling of lining. (108 references). v. a.

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CIA-RDP86-00513R001961710001-5

WITTEK, Zdzislaw

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Przegl odlew 14 no.6:174-180 Je '64.

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WITTELS, Adolf, mgr inz.

Remarks on the mechanization of finishing work in the apartment  
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Utilization of waste materials for building purposes. Przegl  
techn 86 no.10:4 7 Mr '65.

WITTELS, Adolf, mgr inż.

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five-year plan. Przegl techn 86 no.25;1,3 20 Je '65.

WITTELS, Adolf, mgr inz.

The material basis in the realization of the prospective planning  
in the field of construction and building. Przegl techn 84  
no.2:4 13 Ja '63.

WITTELS, Adolf, mgr inz.

Large prefabricated structures in the apartment building industry.  
Przegl tech [84] no.8:3 24 F '63.

WITTENBERG, E.

"Use of Combined Chromatographic Analysis on Paper and a Silica-Gel Column for Identification and Quantitative Analysis of Lower Fatty Acids in Water After Low-Temperature Carbonization of Brown Coal." p. 41, Praha, Vol. 34, no. 2, Feb. 1954.

SO: East European Accesions List, Vol. 34, no. 2, Feb. 1954.

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WITTENBERG, E.; HOUBEK, M.

Pressure gauge for measuring lower pressures of vapors. p. 93

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro vyuuziti pri Ceskoslovenske akademii ved) Praha, Czechoslovakia, Vol. 39, No. 3, Mar. 1959

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Uncl.

WITTENBERG, E.

"Increasing effectiveness of the extraction of crude benzol from coke  
gas by control of the absorption process of exact physical methods."  
P. 117.

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Czechoslovakia, Vol. 39, No. 4, Apr. 1959.

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*WITTENBERG L.*

PRZYLPIAK, Roman; WITTENBERG, Leonard

Experimental staphylococcal ecthyma. Przegl. derm., Warsz. 4 no.4:  
297-300 July-Aug 54.

1. Z Kliniki Dermatologicznej Akademii Medycznej w Gdansku. Dyrektor:  
prof. dr T.Pawlas.

(ECTHYMA, experimental,  
micrococcal)

(MICROCOCCAL INFECTIONS, experimental,  
ecthyma)

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Determination of speeds in erodnatural river beds by formulas without the roughness coefficient. p 129.

(HIDROTECHNICA, Vol. 2, no. 3, May/June 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957  
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WITTENBERGER, C.: FABIAN, N. Study on the reflex time in spinal reflexes of a frog. p. 409

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Observations on the rhythmicity of rest and active periods in  
the *Actinia equina*. Studii cerc biol s. zool 16 no.6:571-572  
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1. Section of Animal Physiology of the Rumanian Academy, Cluj  
Branch.

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ROSCA, D.,: KOLASSOVITS, H.: WITTENBERGER, C. On the presence of cholinesterase  
in some invertebrates of the Black Sea. p. 403

Monthly List of East European Accessions (EEAI) Vol. 8, no. 3/4  
April 1959, Unclass.

WITTENBERGER, C.; RUSDEA, D.; ROSCA, D.

Behavior in salinity variations. XLV. Study on osmoregulation, and on the role of the nervous system in the osmoregulation phenomenon in Hirudo medicinalis. p. 113.

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Research on the physiology of the striated muscle of fresh-water and marine Teleostei. Studii biol Cluj 10 no.2:267-283 '59. (EEAI 10:2)

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(TELEOSTEI) (MUSCLES) (SPASMS) (TETANUS)

PORA, Eugen A., prof. WITTENBERGER, C.; KOLASSOVITS, H.; ROSCA, D.I.

Research on the visual sensibility of certain fishes in the Black  
Sea. Studii biol Cluj 10 no.2:286-292 '59. (EEAI 10:2)

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Cluj, Sectia de fiziologie animala. 2. Membru corespondent al  
Academiei Republicii Populare Romane (for Pora)  
(BLACK SEA) (RUMANIA--FISHES)

PORA, Eugen A.; RUSDEA, Delia; ROSCA, Dumitru I.; STOICOVICI, Florica;  
WITTENBERGER, Carol

Influence of osmotic and saline water modifications on the protein components of the hemolymph of *Pachygrapsus marmoratus* of the Black Sea. Studii biol Cluj 11'no.2:303-310 '60. (EEAI 10:9)

1. Academia R.P.R., Filiala Cluj, Centrul de cercetari biologice, Sectia de fiziologie animala comparata. 2. Membru corespondent al Academiei R.P.R. (for Pora).

(Black Sea--*Pachygrapsus marmoratus*) (Crabs)  
(Hemolymph) (Osmosis) (Saline waters)  
(Proteins)

PORA, Eugen A.; WITTENBERGER, Carol

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R.P.R., 10 (1960)] IV. Contributions to the physiology of the red  
muscle. Studii biol Cluj 11 no.2:319-337 '60.  
(EEAI 10:9)

1. Academia R.P.R., Filiala Cluj, Centrul de cercetari biologice,  
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al Academiei R.P.R. (for Pora).

(Teleostei) (Muscle) (Chronaxia) (Marine fauna)  
(Fresh-water fauna)

PORA, Eugen A., prof.; OROS, Ion; RUSDEA, Delia; WITTENBERGER, Carol; STOICOVICI Florica

Incorporation and elimination of P<sup>32</sup> in some organisms of the Black Sea. Studii biol Cluj 12 no.2:293-326 '61.

1. Academia R.P.R., Filiala Cluj, Centrul de cercetari biologice, Sectia de fiziologie animala comparata, Universitatea "Babes-Bolyai," Cluj, Catedra de fiziologia animalelor, si Statuimea biologica marina "Ion Borcea," Agigea, Constanta. 2. Membru corespondent al Academiei R.P.R. si membru al Comitetului de redactie, "Studi si cercetari de biologie" - Filiala Cluj - (for Pora).

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and modification of the contraction at the time of muscle's  
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1. Centrul de cercetari biologice al Filialei din Cluj a  
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Comunicare prezentata de Th. Busnita, membru corespondent  
al Academiei R.P.R.

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logice. 2. Membru corespondent al Academiei R.P.R. (for  
Pora).

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1. Academia R.P.R.- Filiala Vluj, Centrul de cercetari biologice. 2. Membru corespondent al Academiei R.P.R. (for Pora).

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1. Academia R.P.R. - Filiala Cluj, Centrul de cercetari  
biologice, si Universitatea "Babes-Bolyai", Facultatea de  
matematica.

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Black Sea. Studii biol Cluj 14 no.2:299-304 '63.

1. Center of Biologic Research, Rumanian Academy, Cluj Branch.

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Studies on the involuntary psotcontraction of sport students.  
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1. Section of Animal Physiology, Center of Biological Research,  
Cluj.

PORA, Eugen, acad., prof. emerit; ROSCA, Dumitru I., conf. dr.; WITTEMBERGER,  
Carol, cercetator principal; PERSECA, Tiberiu, (Cluj)

Research carried out by the Collective of the Chair of Animal  
Physiology in Cluj during the 20 years since the liberation of  
Rumania. Natura Biologie 16 no.5:14-21 S-0 '64.

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Research on the muscular function in lamb ontogenesis.  
Studii biol Cluj 14 no.1:121-128 '63.

1. Center of Biological Research, Rumanian Academy, Cluj  
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Observations on the orientation of Idothea toward the sea,  
Studii cerc biol s. zool 17 no.1:101-105 '65.

1. Section of Animal Physiology, Center of Biological Research,  
Rumanian Academy, Cluj Branch. Submitted June 22, 1964.

WITTERSHEIM, K.

"Building Investments in Collective Farms in the Rzeszow Province in 1952." p. 3,  
(BUDOWNICTWO WIEJSKIE, Vol. 5, no. 1, Jan./Feb. 1953, Warszawa, Poland)

SO: Monthly Lists of East European Accessions, LC, Vol. 3, no.5, May 1954/Unci.

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Is milk a prophylactic against occupational poisoning. p. 22. (Ochrona Pracy; Bezpieczenstwo i Higiena Pracy, Vol. 10, No. 5, May 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

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Gravity transport of stowing material. p. 155.  
UNLI, Praha, Vol. 5, no. 5, May 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and  
Their Application. Synthetic Polymers. Plastics.

H-29

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 26973

Author : Wittich Walter

Inst :

Title : Plastics in the Coal Industry.

Orig Pub : Uhli, 1957, 7, No 2, 55-59

Abstract : Physico-mechanical characteristics are given for the principal varieties of thermosetting and thermoplastic materials, and the prospects of their use in underground coal mining are considered. It is noted that at the present time there are utilized in the Czechoslovak mines plastic polyvinyl chloride, rigid polyvinyl chloride plastics and also polyamides.

Card 1/1

WITTICH, W.

The development and testing of rubber and polyvinyl chloride conveyers with a bottom belt.

P. 265. (UHLI.) (Praha, Czechoslovakia) Vol. 7, No. 8, Aug. 1957

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

WITTICH, Walter, inz.

Luminous signals in mines improve the safety of mining. Uhli 4  
no.2:50-53 F '62.

1. Vedeckovyzkumny uhelny ustav, Radvanice.

WITTICH, Walter, inz.

Plastic materials and electrostatic phenomena in coal mines.  
Uhli 4 no.4:115-117 Ap '62.

1. Vedeckovyzkumny uhelny ustav, Ostrava-Radvanice.

WITTICH, Valter, inz.

Development and use of plastic casings for water packings.  
Uhli 5 no.8:281-282 Ag '63.

1. Veddecko-vyzkumny uhelny ustav, Ostrava-Radvanice.

WITTICH, Walter, inz.

Glued shaft guides for extraction cages and skips and their technical and economic merits. Uhli 6 no.6:205-207 Je '64.

1. Scientific Research Institute of Coal, Ostrava - Radvanice.

HUNGARY / Organic Chemistry. Synthetic Organic  
Chemistry.

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Abs Jour : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50439

Author : Wittig, G.

Inst :

Title : Syntheses Based on Nitriles and Phosphines

Orig Pub : Acta chim. Acad. Sci. hung., 1957, 12, #3-4,  
347-361.

Abstract : See R. Z. Khim, 1957, 794

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Syntheses involving nitrogen ylides and phosphorus ylens. Usp.khim.  
26 no.10:1141-1151 0 '57. (MIRÄ 10:10)

1. Khimicheskiy institut pri universitete v Tyubingene.  
(Nitrogen) (Phosphorus)

HUNGARY/Human and Animal Physiology - Excretion.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 18326

Author : M. Foldi, H. Kleinsorge, G. Bolland, P. Friedrich, F. Solti  
and H. H. Wittig.

Inst :

Title : The Effect of the Cerebral Cortex on Renal Function and  
Hemodynamics in the Human.

Orig Publ : Magyar tud. akad. Biol. es orv. tud oszt kozl., 1957, 7,  
No 4, 411-431.

Abstract : No abstract

WITTING, O.

"Contributions to the knowledge of annual and periodical fluctuation of the number of deer". p. 137. (REVISTA PADURILOR, Vol. 69, No. 3, Mar. 1954, Bucuresi, Rumania)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.:1954, Uncl.

WITTING, O.

Combat against animals injurious to game animals as a means to increase  
cynegetic production. p. 618. REVISTA PADURILOR. (Asociatia Stiintifica a  
Inginerilor si Technicienilor din Romania si al Ministerului Agriculturii si  
Silviculturii) Bucuresti. Vol. 70, no. 12, Dec. 1955.

So. East European Accessions List Vol. 5, No. 8

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The lynx (Lynx lynx L.) a natural monument. p. 135.  
(Ocrotirea "aturil, No. 2, 1956, Bucuresti, Romania)

SO: Monthly List of East European Accessions (EEAL) Ic. Vol. 6, No. 8, Aug 1957. Uncl.

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M. Wittinger: "The Development of the Science of Gravimetry in Czechoslovakia and Poland," Przeglad Geodezyjny, No. 4, 1955, pp. 99-102.

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Basic gravimetric network in Czechoslovakia, p. 131

Vol. 65, No 1/11 1953 (Pub. 1954)  
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Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956

WITTINGER, M.

Professor A.A.Michajlov visiting the Pecny Observatory. Geod kart  
obzor 8 no.11:219 N 162.

WITTINGHOF, Bela

How to develop Visegrad? Musz elet 19 no.20:3 24 S '64.

WITTLIN, JERZY.

Opowiesc o Ziemi Polskiej. Warszawa, Iskry, 1955. 1 v. (unpaged) (Story about the Polish land. chiefly illus.)

So: Eastern European Accession. Vol 5, no. 4, April 1956

WITTMAN, Danuta

Circulatory leukocytes in otitis media. Otolaryngologia polska, 8 no.2:  
133-150 1954.

1. Z Kliniki Otolaryngologicznej Akademii Medycznej we Wrocławiu.  
Kierownik: prof. dr T. Zalewski. 2. Z III Kliniki Chorób Wewnętrznych  
Akademii Medycznej we Wrocławiu. Kierownik: prof. dr M. Szczeklik.  
(OTITIS MEDIA, blood in,  
leukocytes count)  
(LEUKOCYTE COUNT, in various diseases,  
otitis media)

WITTMANN, Gyula

Materialization of the fluidization pyrite roasting in Hungary and its experiences. Magy kem lap 15 no.8:370-376 Ag '60.

1. Vegyimuveket Tervezo Vallalat.

RENYI, Kazmer, dr.; WITTMANN, Istvan, dr.; PAZMANY, Jozsef, dr.

Case of vital diagnosis of dissecting aneurysm of the aorta.  
Orv. hetil. 96 no.1:22-23 2 Jan 55.

1. A Nephadsereg Egeszsegugyi Szolgatalanak kozlemenye.  
(AORTIC ANEURYSM,  
dissecting, diag., vital.)

WITTMAN, Istvan, dr.

Indications and contraindications for laparoscopy. Orv.hetil. 101  
no.33:1167-1170 14 Ag.'60.

1. Budapesti Vevorosi Tanacs Balassa Janos Korhaza. I. sz.  
Belosztadly  
(ENDOSCOPY)

WITTMAN, Istvan, dr.

Diagnostic role of laparoscopy in diseases of the pancreas. Orv.  
hetil. 102 no.14:640-643 2 Ap '61.

1. Budapesti Balassa Janos Korhaz, I Belosztaly.

(PANCREAS dis)

ROTH, Imre, dr.; GORECZKY, Laszlo, dr.; WITTMANN, Istvan, dr.

'Acute hepatic porphyria. Magy. Belorv. arch. 15 no.2:67-70 Ap '62.

1. MAV Korhaz es Kozponti Rendelo Intezet es a Fovarosi Tanacs  
Balassa Jancs Korhaza.  
(LIVER DISEASES case reports) (PORPHYRIA case reports)

WITTMAN, Istvan, dr. ; PREISICH, Peter, dr.

Drug therapy of colitis ulcerosa (gravis). Orv. hetil. 105  
no.15:685-690 12 Ap'64

1. Budapest, VIII. Keruleti Tanacs Balassa Janos Korhaz,  
I.Belosztaly.

WITTMAN, Istvan, dr.; ASZODI, Zoltan, dr.; PAFF, Laszlo, dr.

Recent use of dye solutions in diagnosis. I. Chromolaparoscopy.  
Orv. hetil. 105 no.10:447-450 10 Mr'64.

I. Balassa Janos Korhaz, I. Belosztaly es Allatorvosi Egyetem,  
Belgyogyaszati Klinika.

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WITTMAN, Istvan, dr.; TREBITSCH, Magdolna, dr.

Diagnosis and prognosis of fatty liver. Orv. hetil. 106 no.16:  
737-739 18 Ap '65

1. Budapesti VIII. ker. Tanacs, Balassa Janos Korhaz, I.  
Belosztaly.

## HUNGARY

WITTMAN, Istvan, Dr, ASZODI, Zoltan, Dr, PAPP, Laszlo, Dr; Balassa Hospital, I. Medical Ward (Balassa Korhaz, I. Belosztaly), and Veterinary Medical University, Medical Clinic (Allatorvostudomanyi Egyetem, Belklinika).

"Study of the Resorption of Dye Solutions, Administered Intravenously, Intraabdominally and Intrasplenarily Into the Organism, by Means of Laparoscopic Control (Chromolaparoscopy II.)."

Budapest, Orvosi Hetilap, Vol 107, No 34, 21 Aug 66, pages 1598-1601.

Abstract: [Authors' Hungarian summary]. 1) It was determined on the basis of laparoscopic studies that the 13 different drug and dye solutions, administered i.v., i.a. and i.s., appear in the vessels of the abdominal organs (liver, gall bladder, gastrointestinal system) with intensities as indicated in a table. They cause clearly-visible changes on the surface of the abdominal organs. Resorption of the individual drugs and dye solutions is nearly identical after all three modes of administration. 2) The differences seen in the resorption of drug and dye solutions, according to their i.v., i.a. or i.s. administration, provide possibilities for diagnostic conclusions in the course of laparoscopy, mainly in diseases accompanied by vascular changes in the liver and certain abdominal visceral organs (liver cirrhosis, thrombosis of the vena lienalis, pylethrombosis, etc.). 3) Excretion of the drug and dye solutions studied occurs in the same manner after all three modes of administration, through the intestines and kidneys, in accordance with the mode and degree of their resorption. 1 Hungarian, 4 Western references.

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WITTMANN, Karoly

"Technique of bearing support and lubrication with special regard to internal combustion engines" by R.Kamps. Reviewed by Karoly Wittmann. Jarmu mezo gep 6 no.5;3 of cover '59.

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WITTMANN, Karoly, Dr.

"Hydraulic driving gears" by A. Durr and O. Wachter. Reviewed by  
Dr. Karoly Wittmann. Gep 12 no.1:8 Ja '60.

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WITTMANN, K.

WITTMANN, K. Adapting stamping tools to any conditions. p.(3) of cover.

Vol. 8, No. 2, Feb. 1956.

GEP

TECHNOLOGY

Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

WITTMAN, Tibor, a tortenelemtudomany kandidatusa, egy.docens(Szeged);  
KOVACS, Istvan, az allam- es jogtudomanyok kandidatusa (Budapest)

Academic Days in Szeged. Magy tud 68 no.7/8:472-477 Jl-Ag '61.

1. Szegedi Tudomanyegyetem. (for Wittman) 2. Intezeti igazgato h.,  
Magyar Tudomanyos Akademia Allam- es Jogtudomanyi Intezete, Budapest.  
(for Kovacs)

WITTMER, W.

New Malacodermata (Coleoptera) from New Guinea and New Britain in the collection  
of the Hungarian Museum of Natural History. In German. p. 213. Vol. 6, 1965  
MAGYAR NEMZETI MUZEUM TERMESZETTUDOMANYI MUSEUM EVKONYVE. ANNALES HISTORICO-  
NATURALES MASEI NATIONALIS HUNGARICI. Budapest, Hungary.

Source: East European Accession List. Library of Congress  
Vol. 5, No. 8, August 1956

WITTNER, E., dr.; WINT Virginia, ing.; SCHWARTZ, D.

Anthropometric study as a base for scientific clothing  
manufacturing. Ind text Rum 14 no.12:575-579 D'63.

WITTOCH, Z. M.D., DOCTOR OF MEDICINE

"A Philologist's Observations on the Way Language Helps to Illustrate the History of Medicine." p. 1247 (CASOPIS LEKARU CESKYCH, Vol. 92, No. 45, Nov. 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4,  
April 1954. Unclassified.

WITUCH, K.

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PASZKIEWICZ, Alina; RUCZAJ, Zbigniew; SOBICZEWSKI, Wojciech; SZCZESNIAK,  
Tadeusz; SZENIAWSKI, Piotr; TERLECKA, Janina; WIJK, Edyta; WITUCH, Krystyna

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proposing an increase of the effective water head on turbines of generators is discussed. An auxiliary turbine drives a pump to boost the effective pressure on the main turbine to permit a speed increase with a corresponding decrease in the size and cost of the power plant. This method is applicable to locations with small water head but with a large water flow. Two examples of application of this principle before the war are mentioned.

J. LIKANZLICZ

WITULSKA, F.

V 1529. ARTIFICIAL INCREASE OF WATER HEAD IN A HYDRO-ELECTRIC POWER STATION USING AN AUXILIARY TURBINE PUMP. Witulská, F. (Przegl. Elektrotech. [Electrotech. Rev., Warsaw], 1955, vol. 31, (1), 38-40). The Euler patent (German P. 808100/1950) proposing an increase of the effective water head on turbines of generators is discussed. An auxiliary turbine drives a pump to boost the effective pressure on the main turbine to permit a speed increase with a corresponding decrease in the size and cost of the power plant. This method is applicable to locations with small water head but with a large water flow. Two examples of application of this principle before the war are mentioned.

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Energy of wind as an undervalued source of power. p. 212 PRZEGLAD  
TECHNICZNY (Naczelna Organizacja Techniczna) Warszawa. Vol. 76, no. 6,  
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WITULSKA, FELICJA

PHASE I BOOK EXPLOITATION

POL/4224

Mazka energetyka; biuletyn, Nr 2 (Low-Capacity Power Engineering; Bulletin, No. 2).  
Kraków, Towarzystwo naukowe dla wykorzystania źródeł energetycznych w Polsce,  
1958. 131 p. 3,000 copies printed.

No editors mentioned.

PURPOSE: This bulletin is intended for power engineers and technicians specializing  
in the development of low-capacity natural resources and for users of such power  
resources for local agricultural and industrial applications.

COVERPAGE: This collection of articles is devoted to the problems of the utiliza-  
tions for local consumption of regional power resources other than coal and  
oil. Such energy resources include water, wind, sun, tides, natural and waste  
gases, peat, shale, hot springs and others less known or as yet unexplored.  
The study of such resources and of their use is presented in a series of articles  
concerning achievements and experience in Poland and other countries. There is  
a detailed bibliography, largely of non-Soviet and non-Polish source material,  
at the end of the book. No personalities are mentioned.

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Low-Capacity Power Engineering (Cont.)

POL/4224

TABLE OF CONTENTS:

Asler, Roman, Master of Engineering, President of the Scientific Society for the Utilization of Energy Area Resources in Poland.

5

Introduction

The author presents a short historical sketch of the development of the "Low-Capacity Power Engineering" idea, initiated by the Association of Polish Electrical Engineers (SEP) in 1952.

Brzezinski, Waclaw, Professor of the Jagiellon University, Krakow.

7

Legal Problems of Low-Capacity Power Engineering

The author discusses the hydropower laws enacted in 1922 and never abolished and suggests certain changes necessary from the point of view of a socialist economy.

Witulska, Felicja, Master of Engineering, Warsaw. Low Capacity Power Engineering Abroad on the Background of General Electrification

15

The author presents an economic and social justification of low-capacity power developments which are meant to be supplementary to the general electrification of any country. Where a publicly

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## Low-Capacity Power Engineering (Cont.)

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available power supply is not accessible, a small local electric generating unit is desired. She then presents a short account of the state of electrification and, in particular, of low-capacity power developments in Belgium, Denmark, Great Britain, Holland, Sweden, Switzerland, the German Federal Republic, the German Democratic Republic, Austria, Finland, France (Continental and Algiers), Greece, Turkey, Yugoslavia, Italy, the USA, Czechoslovakia, Hungary, Rumania, Bulgaria, Albania and the USSR.

Stolbushkin, N.A. Engineer (translated by Jerzy Kubiatowski, Engineer).  
Air Compressor Installation VKU-3.5

41

The author describes an experimental air compressor installation VKU-3.5 designed by V.V. Savotin and built by the Special Bureau "stroyvodpnevmatika" of the Ministry of Railroads, USSR. The VKU-3.5 installation was successfully tested in 1952 at the North Caucasus Experimental Machine Station under summer and winter operating conditions. This installation is intended for pumping water from mountain wells. It is equipped with a wind wheel 3.5 m in diameter which drives the compressor. The author gives

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## Low-Capacity Power Engineering (Cont.)

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a detailed description of the VKU-3.5 and of the results of its testing.

Witulska, Felicja, Master of Engineering, Warsaw. Water in the Service of the Electrification of Agriculture 48  
The author points to the necessity of utilizing available water power for electrification of small rural areas where for economic reasons there is no publicly available power supply.

Lobczak, Jerzy, Master of Engineering, Kraków. Micro-Electric Power Stations 53

The author deals with the utilization of water power in mountain and near-mountain tourist and health resorts, farms, settlements, small local industries, etc. He gives examples of existing micro-electric power plants with up to 15-kw capacity.

Witulska, Felicja, Master of Engineering, Warsaw. Cooperation of Wind and Water 57

The author describes a system of small hydroelectric power plants supplemented by a system of wind-motor electric plants. The latter play an auxiliary role in pumping storage water. Such joint operation

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## Low-Capacity Power Engineering (Cont.)

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solves local problems of electrification, water supply,  
irrigation, etc.

Hamusz, Tadeusz. Master of Engineering, Krakow. Calculation  
and Design of Wind Motors

60

The author gives detailed illustrated instructions to non-  
specialists who intend to design wind motors for their own use.

Kubiatowski, Jerzy, Engineer. Soviet State Standard For Wind Motors  
This is an illustrated translation of GOST 2656-55

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Drozdowski, H., Professor. Where and How to Install a Wind-Motor  
(on the basis of the book by A.V. Karmishyn)  
The article deals with the methods of finding wind velocity and  
gives a scale of velocities.

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## Low-Capacity Power Engineering (Cont.)

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- Demel, Jadwiga, Master of Engineering. Information Section 99
- Malysa, Stanislaw and Karol Wiorkowski. Improvement of a Drum Type Wind Motor 99  
The authors describe the improvements which they presented to the Patent Office.
- Sourek, Jan, Czechoslovakia. Automation of a Small Hydroelectric Power Plant With an Induction Generator Without Speed Regulation 102  
A description of the automation of a 70-kw hydroelectric power plant in Staré Splavy was received by the Editors and will be published in the next issue of the Biuletyn.
- Characteristic of Automobile Generators 103
- Kubiatowski, Jerzy, Engineer. Bibliography on the Subject of Utilization of Wind Energy, Part II 106
- Kubiatowski, Jerzy, Engineer. New Publications on the Subject of Utilization of Wind Energy 130

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1. Zaklad Badan i Studiow Teletechniki, Warszawa.

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Average hematological values in children from four to fourteen years  
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of Krakow Medical Academy.

Distr: 4E2c

206. Wituszynski, K., Stability and strength of a framed corrugated steel sheet (in Polish), Rozpr. Inżyn. 5, 4, 513-545, 1957.

Paper is concerned with a problem very important for the shipbuilding industry, the problem of load-carrying bulkheads of corrugated steel sheets in tankers built in Polish shipyards.

The present investigation of such a bulkhead is based on the theory of oblique tension in sheets loaded above the limit of elastic stability. The orthotropy of the corrugated sheet is taken into consideration as well as the appearance of stress concentrations and the rapid attainment of the yield point at the corners of trapezoidal waves (with small roundings), particularly disadvantageous from the point of view of strength. The theory of oblique tension being not very accurate, the assumption of a simplified stress distribution is justified. A nonuniform distribution of the horizontal components of the oblique tension stresses is assumed, while the vertical ones are assumed to be constant. In order to overcome the calculation difficulties, a substitute nonhomogeneity of the coefficient  $E$  for vertical tension is assumed (caused by the appearance of the buckling waves in the central part of the sheet). Therefore the stress trajectory of the oblique load is not rectilinear but S-shaped. A number of diagrams facilitate the calculation of the limit load for a sheet framed by sufficiently rigid stiffenings.

J. Naleszkiewicz, Poland

POLAND / Chemical Technology. Food Industry.

H-28

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 79360.

Author : Wierszylowski, J., Rusek Z., Wituszynski, Z.,  
Charlampowicz, Z., Walczak, H.

Inst : Not given.  
Title : The Productivity and the Technological Value of  
Ten Varieties of Raspberries at a Starting Period  
of Fruit-Bearing on a Plantation.

Orig Pub: Roczn. nauk Rolniczych, 1957, A 77, No 1,  
131-159.

Abstract: No abstract.

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Micropaleontological stratigraphy of the upper Cretaceous in  
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The microfauna stratigraphy of the Upper Cretaceous in Lukow,  
Podlasie. Kwartalnik geol 6 no.2:389-390 '62.

1. Zaklad Stratygrafii, Instytut Geologiczny, Warszawa.

WITWICKA, J. : WITWICKI, J.

Polarographic method applied in the diagnosis of occupation disease. p. 239

OCHRONA PRACY: BEZPIECZENSTWO I HIGIENA PRACY.

Warszawa

Vol 9, no. 8, August 1955

SOURCE: East European Accessions List (EEAL) LC Vol. 5, no. 3, March 1956

POLAND/Analytic Chemistry. Analysis of Inorganic Substances. E

Abs Jour: Ref Zhr-Khim., No 23, 1958, 77229.

Author : Witwicka, Jadwiga.

Inst :

Title : Polarographic Determination of Zinc in Nickel Catalyst.

Orig Pub: Przen. spozywczy, 1958, 12, No 4, 157-158.

Abstract: A method of determination of Zn admixtures in Ni catalyst is described. 0.02 to 0.1 g of the sample is dissolved in 5 ml of  $(\text{NH}_4)_2\text{C}_2\text{O}_4$  (5% w/v solution of the salt in saturated KCl solution is diluted 10 times with water) or in up to 30 ml of 0.5 M K tartrate while heating it in a water bath, the solution is diluted with twice distilled water to 50 ml, 10 ml thereof is taken and polarographed during an uninterrupted passage through it of  $\text{N}_2$  or  $\text{H}_2$  for

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E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77229.

a 20 min. period. After that, the standard ZnSO<sub>4</sub> solution is added to it and, after having passed through it N<sub>2</sub> for a duration of 5 min., the solution is polarographed again. The ZnSO<sub>4</sub> solution for the operation is prepared by a tenfold dilution of an about 1%-ual initial ZnSO<sub>4</sub> solution and it is added to the polarographed solution in such an amount that the height of the polarographic wave should rise by not more than 30%. The amount of Zn x is computed (in %) with the following formula:  
$$x = \frac{V_w \cdot C_w \cdot V_n \cdot (h_i - h_{V_w/V_n}) / V_{ng}}{h_i - (h_i - h_{V_w/V_n})}$$
, where: V<sub>w</sub> is the amount of the added ZnSO<sub>4</sub> solution in ml, V<sub>n</sub> is the amount of the solution in the polarograph vessel in ml, C<sub>w</sub> is the concentration of the ZnSO<sub>4</sub> solution in mg per ml,

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POLAND/Analytic Chemistry. Analysis of Inorganic Substances.

E

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77229.

$g$  is the weight of the sample in g,  $h_1$  and  $h_2$  are the heights of the polarographic waves before and after the  $ZnSO_4$  addition correspondingly. The relative error of Zn determination in the presence of  $(NH_4)_2C_2O_4$  is  $\pm 4.5\%$ . Pb, Cu and Fe do not interfere. A solution of Na tartrate may be used instead of the K tartrate solution. The  $E_1^*$  and  $E_2$  tartrates is equal to -1.20, -1.19 and  $\pm 1.46$  v correspondingly. - N. Turkevich.

\*) for An on the background of  $(NH_4)_2C_2O_4$  of K

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WITWICKA, Zofia

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1956.

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prof. dr. med. H. Lewenfisz.  
(CLEFT PALATE,  
review (Pol))